Synopsys' John Rogers Named SPIE Fellow

Recognition for Achievements in Optical Design and Engineering and Service to the Optics Community

MOUNTAIN VIEW, Calif., March 14, 2018 /PRNewswire/ -- Synopsys, Inc. (Nasdaq: SNPS) today announced that Dr. John Rogers, principal engineer of imaging optics in the Optical Solutions Group at Synopsys, has been promoted to Fellow by SPIE, the international society for optics and photonics. Each year SPIE recognizes distinguished individuals in the field of optics and optoelectronics through its Fellows program. The promotion recognizes Rogers' technical achievements in optical design and engineering, as well as his extensive service and contributions to the optics community. Rogers will formally accept the honor at the SPIE Optics + Photonics Conference in San Diego, Calif. in August 2018.

Rogers is a recognized authority in the fields of optical design and aberration theory, particularly for optical systems with rotationally nonsymmetric and freeform elements. He was an early advocate of vector aberration theory, now known as nodal aberration theory. His 1986 paper "Practical Tilted Mirror Systems" showed for the first time that a tilted and/or decentered optical system could be arranged to have aberration patterns that mimic those of a rotationally symmetric system. He also has designed a wide range of significant and complex optical systems, including three-dimensional imaging for clinical dental applications, ophthalmic surgical systems, biocular and binocular systems, FLIR systems, and head-up and helmet-mounted displays.

Rogers has given extensive service to the optics community for educational activities and support for several technical societies. Currently, he is a reviewer for JOSA A, Optics Express and Optics Letters. In 2014 and 2017, he was co-chair for the International Optical Design Conference. In 2016, he was a guest speaker for the Optical Society of Southern California, and from 1992 to 1997, he was convener for the ISO TC172 SC1 WG2, which produced the ISO 10110 optical drawing standard. From 1984 to 1988, he was assistant professor at the Institute of Optics, University of Rochester.

Rogers has also given significant service to SPIE. He has served as a conference chair, committee member and contributor to many SPIE conferences. He is also a reviewer for Optical Engineering and has served as a guest editor as well. His talks at various SPIE conferences have often attracted large audiences.

He has authored or co-authored 37 journal and conference papers, has contributed articles for two books and holds 13 U.S. patents. He received a Ph.D. in Optics from University of Arizona, an M.S. in Optics from University of Arizona and a B.S. in Mathematics from Virginia Polytechnic Institute.

"John's pioneering contributions to design strategies for tilted, decentered and freeform surfaces has significantly advanced the field of optical design and has helped to drive the development of advanced design features in the optical software that Synopsys supplies," said George Bayz, vice president of Synopsys' Optical Solutions Group. "We congratulate John on his many achievements and on his election to SPIE Fellow."

For more information about the SPIE Fellows program, visithttp://spie.org/about-spie/fellows-and-senior-members/fellows.

About Synopsys' Optical Solutions Group

Synopsys' Optical Solutions Group is a leading developer of optical design and analysis tools that model all aspects of light propagation, enabling users to produce accurate virtual prototypes leading to manufacturable optical systems. With CODE V® imaging optics design software, LightTools® illumination design software, the RSoft™ products for photonic and optical communications system design, the LucidShape® products for automotive lighting and the PhoeniX Software tools for photonic integrated circuit (PIC) layout and verification, Synopsys has a long and successful history of providing innovative solutions to the most complex optical engineering challenges. Learn more at https://www.synopsys.com/optical-solutions.html.

About Synopsys

Synopsys, Inc. (Nasdaq: SNPS) is the Silicon to Software™ partner for innovative companies developing the electronic products and software applications we rely on every day. As the world's 15th largest software company, Synopsys has a long history of being a global leader in electronic design automation (EDA) and semiconductor IP and is also growing its leadership in software security and quality solutions. Whether you're a system-on-chip (SoC) designer creating advanced semiconductors, or a software developer writing applications that require the highest security and quality, Synopsys has the solutions needed to deliver innovative, high-quality, secure products. Learn more at http://www.synopsys.com.

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